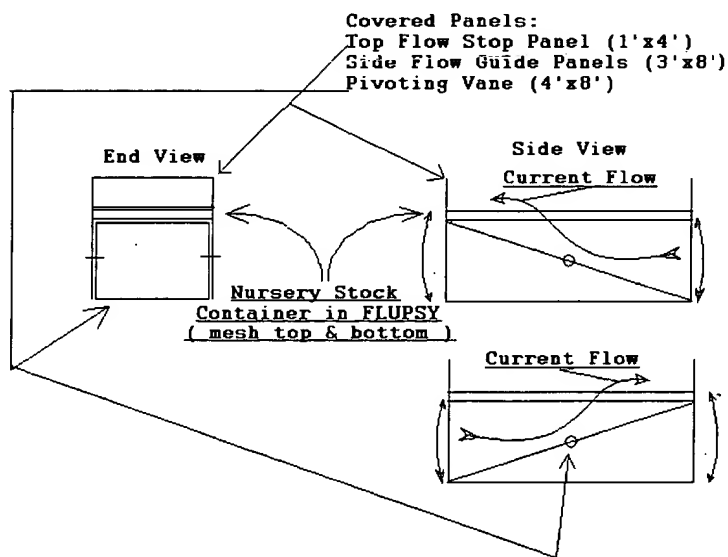




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FIG. 1 – FLUPSY (Floating Upweller System)





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FIG. 2 – BUPSY (Bottom Upweller System)

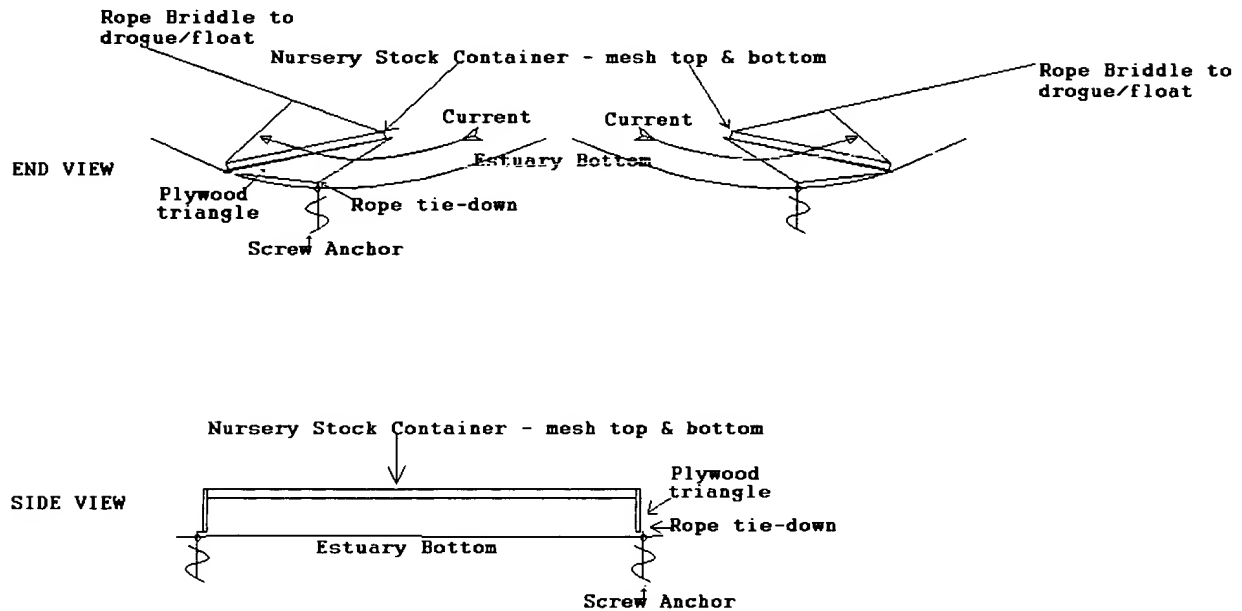


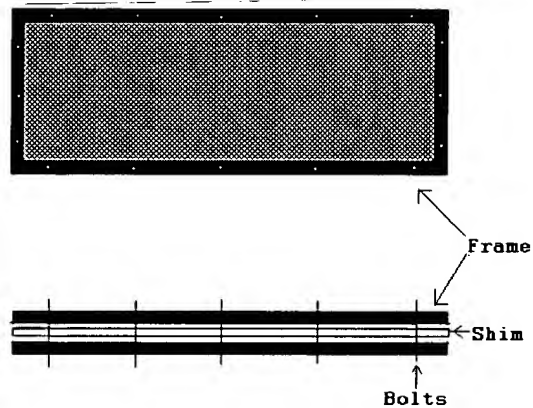


FIG. 3 - Nursery Stock Container
Provisional Patent Application

TOP VIEW - Two ridged frames, each covered with mesh (sized to retain shellfish), bolted together.

The frames are seperated with a combination of ridged and compressible (closed cell foam) shims so that the shellfish are gently but securely held by the assembly.

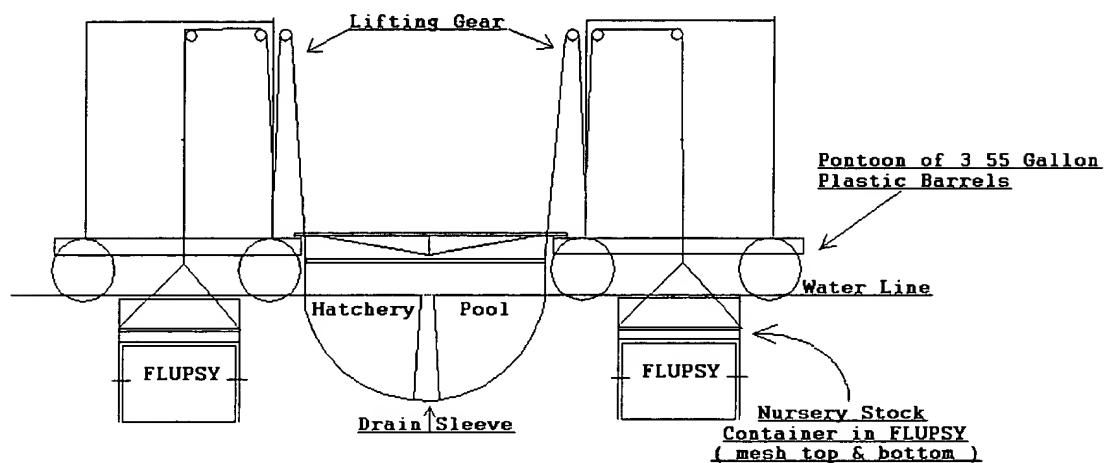
SIDE VIEW





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FIG. 4 - End View of
Spawntoon





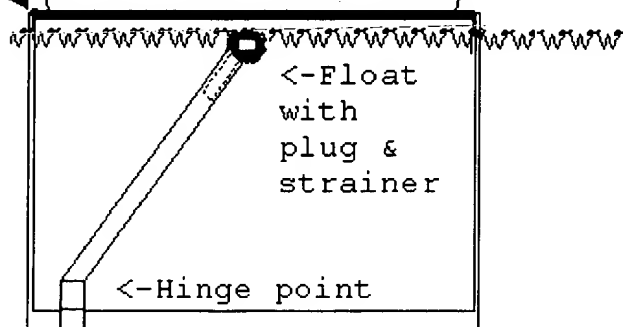
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FIG. 5 – Drain Device for floating hatchery live-well

Hatchery Live-Well

Filled with filtered water for spawn. The drain device is plugged. The ridged frame of the Hatchery Pool is either held above the water by ropes or supported by the floatation of the live-well itself.

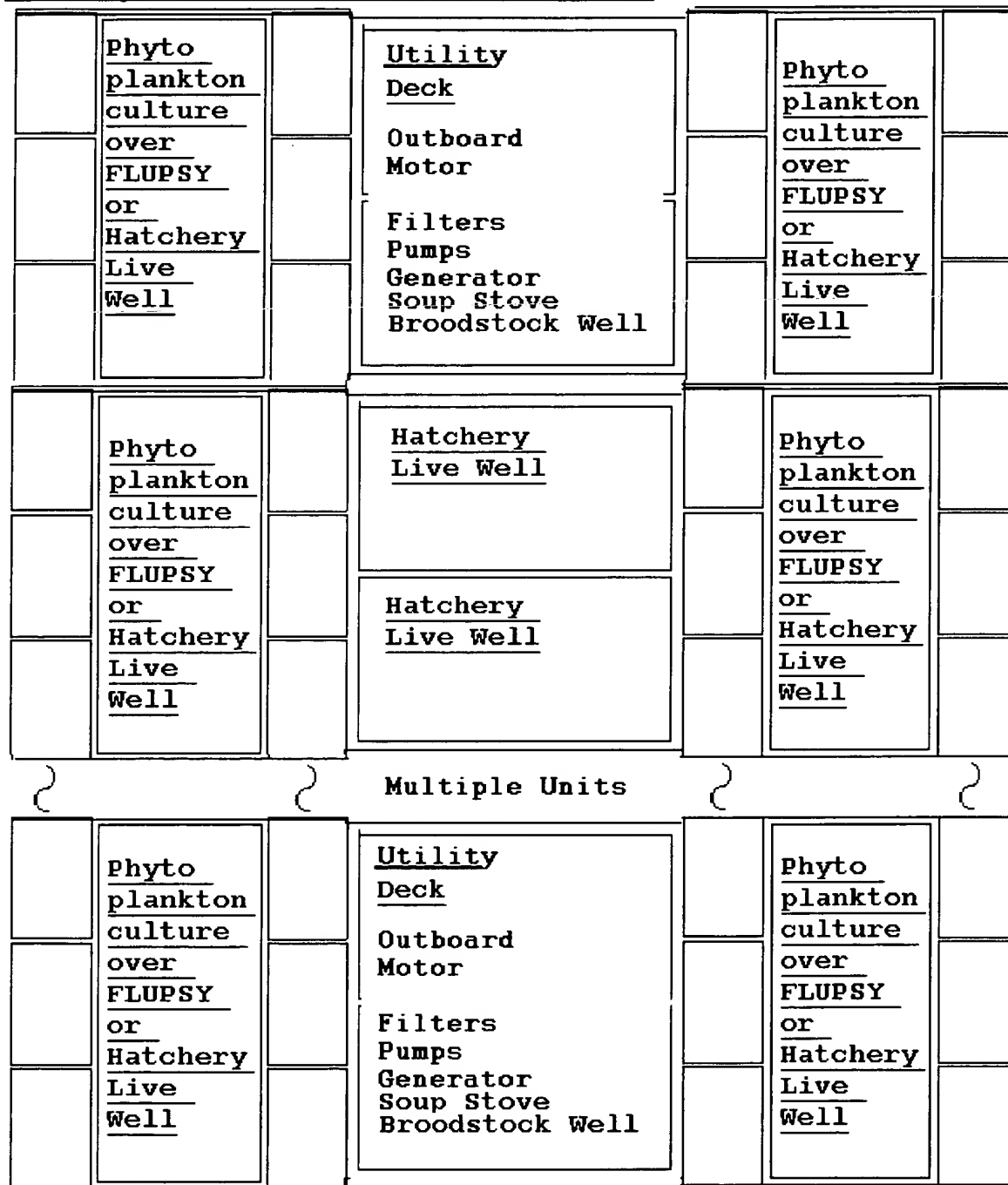




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FIG. 6 – SpawnToon Motorboat "The Mama Cass Ostrea"





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FIG. 7 – Phytoplankton Culture: Culture Bag w/fittings, Stretcher resting on two pontoons

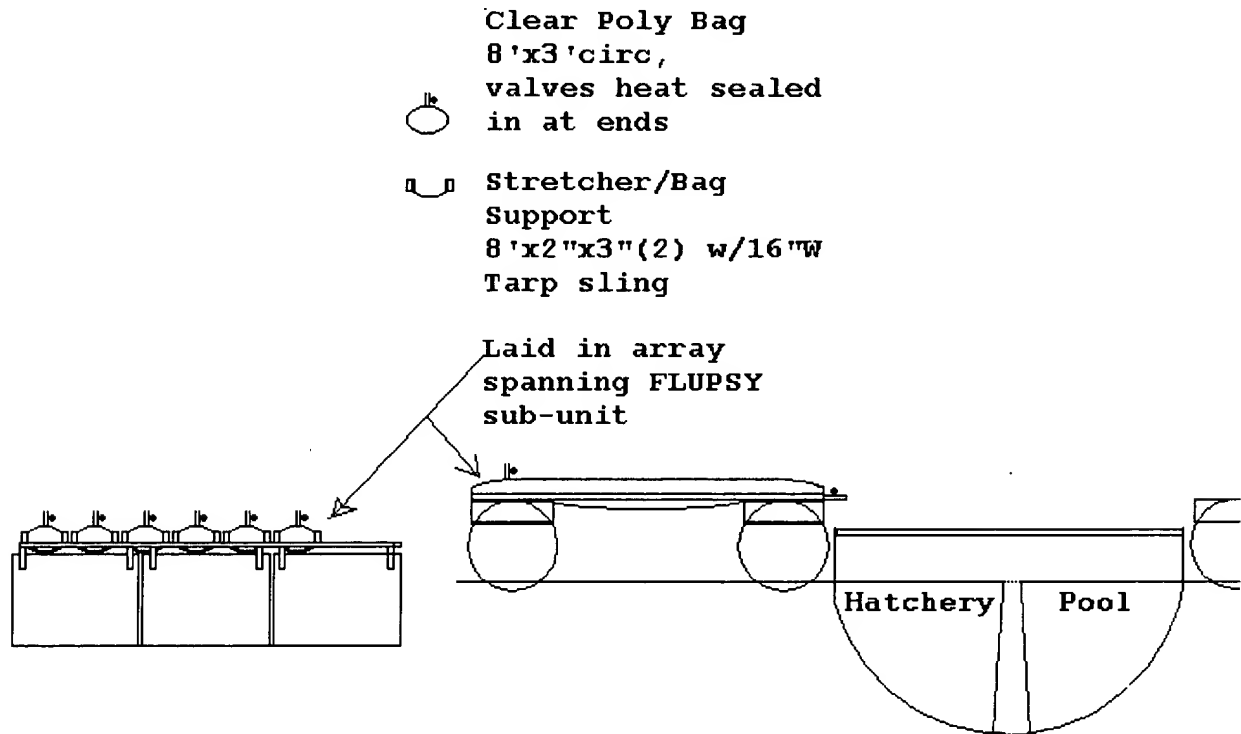
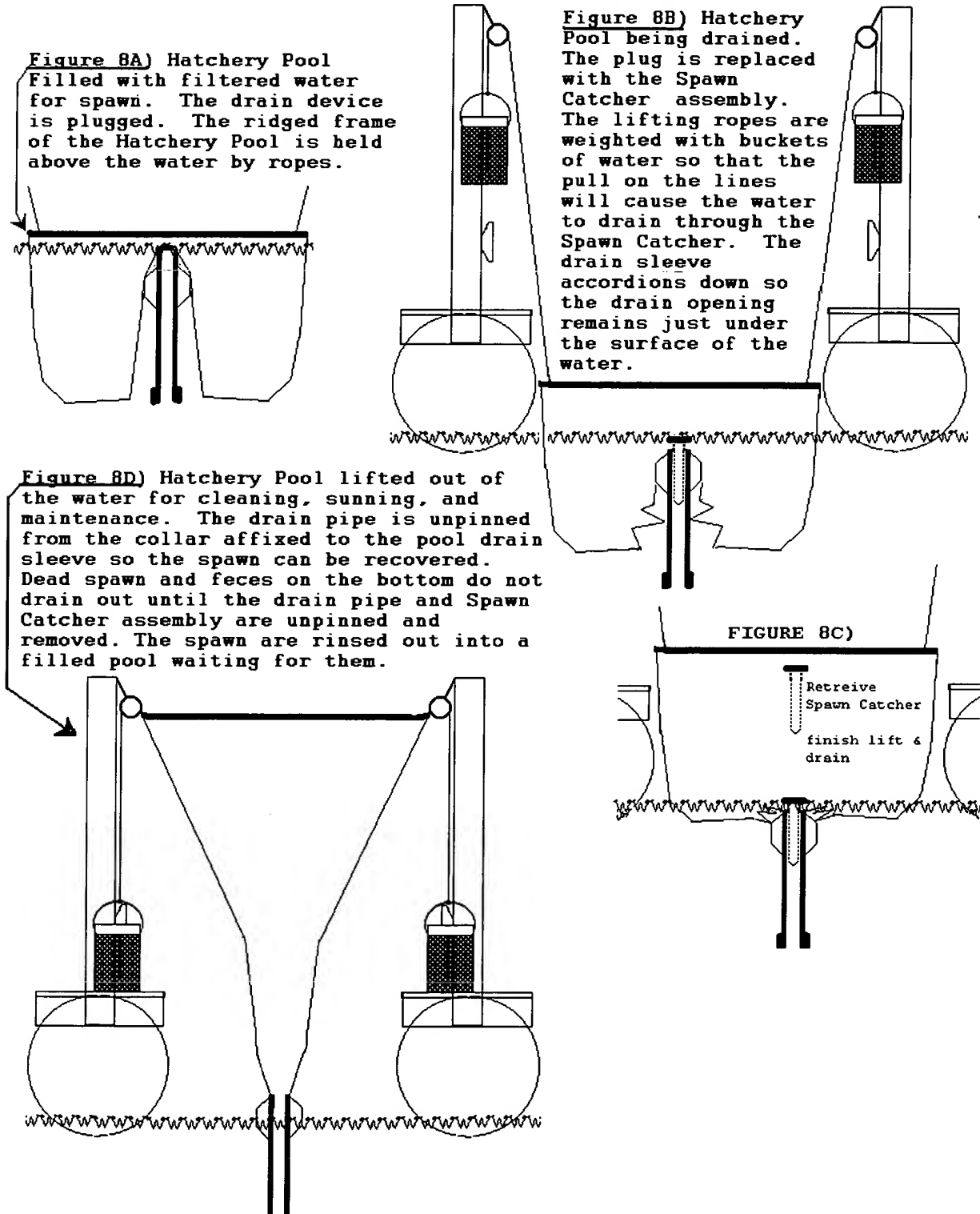
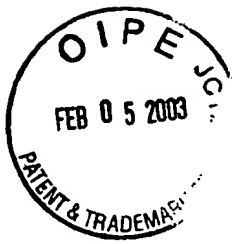




FIG. 8 – Hatchery Live Well Drain-Sleeve and Spawn Catcher





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FIG. 9 - Outboard Motor Mount (with DAVIS NOZZLE) slung underneath SpawnToon deck,
Profile of the Tubular Shroud surrounding the propeller and bolted to the cavitation plate

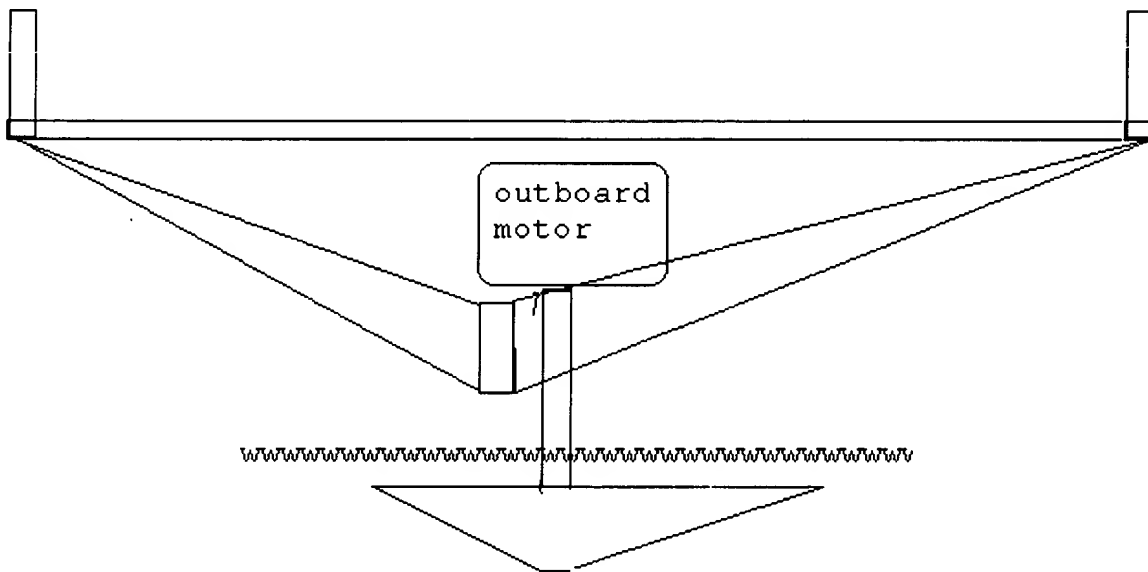
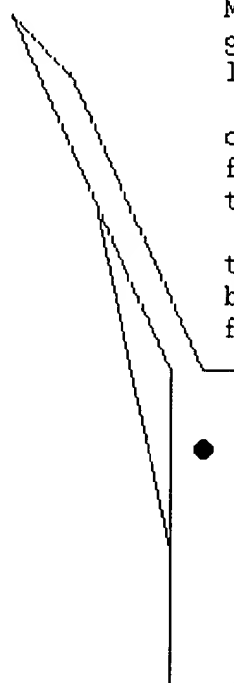




FIG. 10 - Davis Harpoon anchor

Figure 10) DAVIS HARPOON ANCHOR



Made from 2 inch dia.
galvanized pipe 36 inches
long

one half the pipe is cut
from one half the length
to form a trough

the trough portion is
bent outward and cut to
form a point on the end

a bolt for
attaching the
anchor line is
placed in tube

anchor is washed
into place much
like a piling or
bulkheading

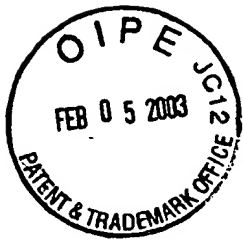


Figure 11 A) TWWELLER : side view

Two Way Upweller/Downweller Shellfish Growing Device

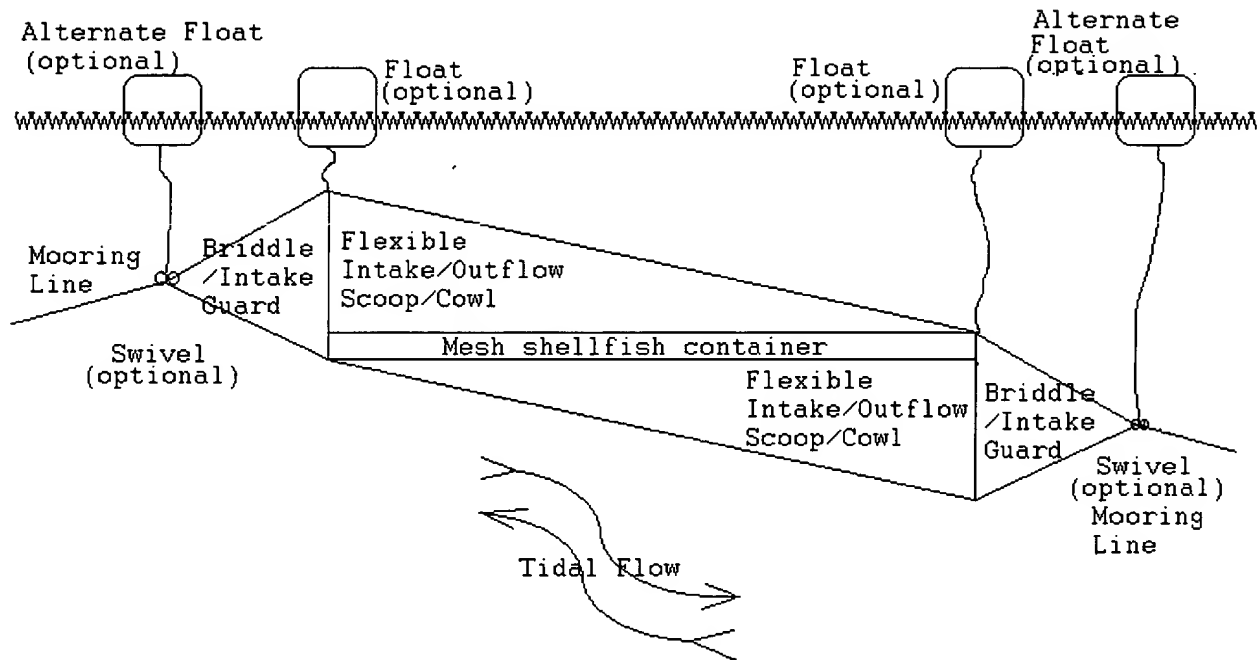


FIGURE 11 B) TWWELLER: end view

Rotating Option
on swiveled mooring

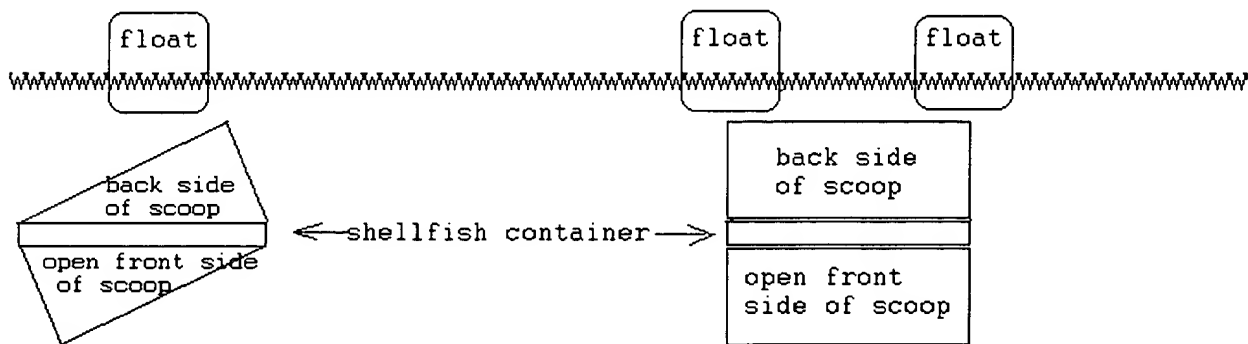


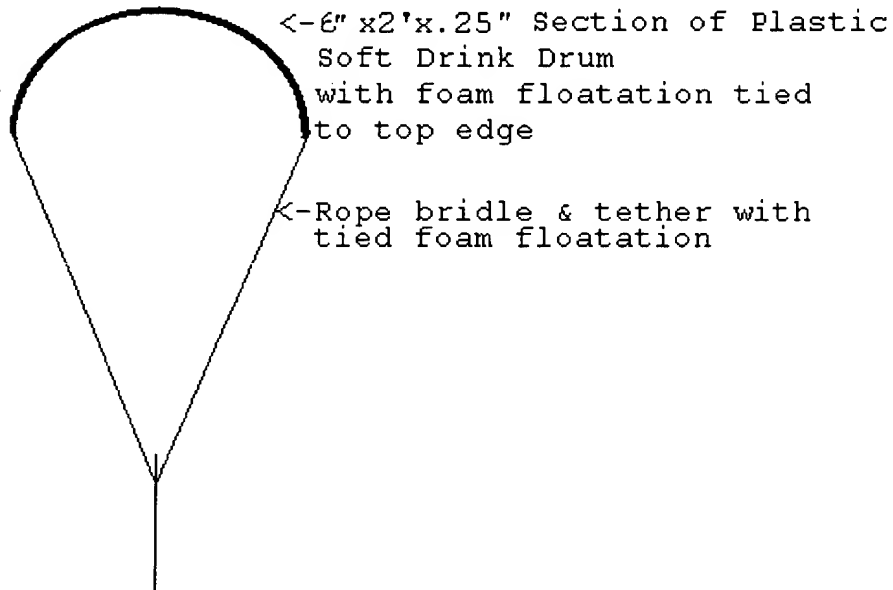
FIG. 11 - TWWELLER



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FIG. 12 – Float-Drogue

Figure 12) Float-Drogue

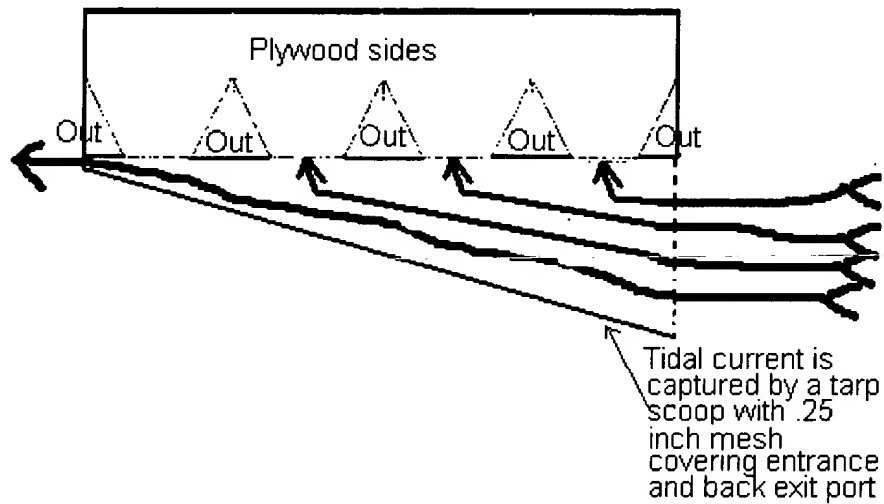




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FIG. 13 Grounding Tolerant FLUPSY scoop of CLAIM 9 servicing a crenellated Marsupium.
Side View



Water out through triangular ports in the side
after passing through a 38 micron mesh crenallation panel
Plywood panel separates inbound water from outbound
water in the crenallation



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FIG. 14 – Resuspension Drag Foil of CLAIM 17

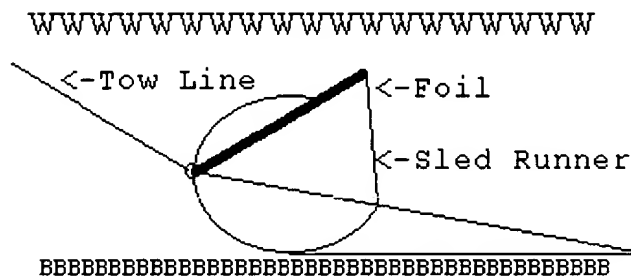
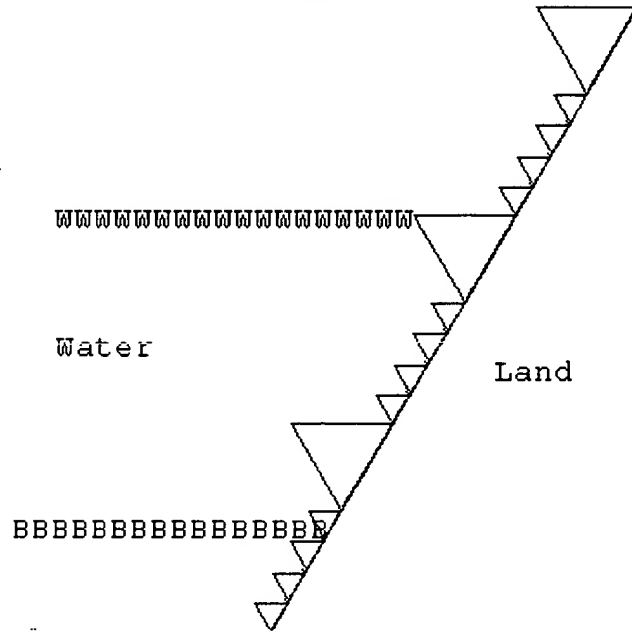
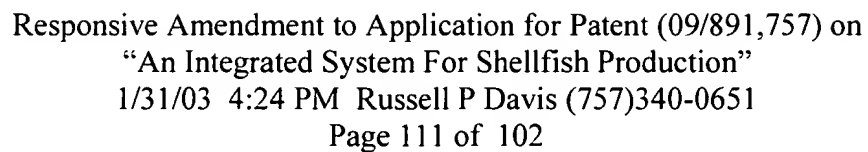




FIG. 15 – Waffle Bulkhead





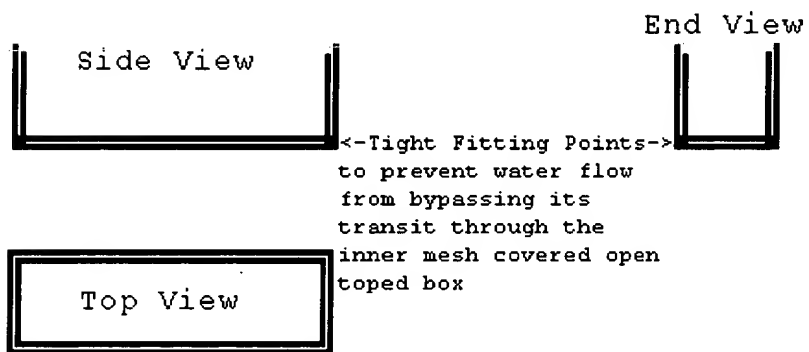
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Clam Predator->      <-Exclusion Net
                  Salvaged
                   Spartina
                    Marsh
sssssccccccccccccccccc
Sand Flat with Mobile Sand
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FIG. 18 – Shellfish Hatchery-Nursery Container of CLAIM 16: Set of two nested open top
Self Cleaning screen set of CLAIM 7 used by the Marsupium

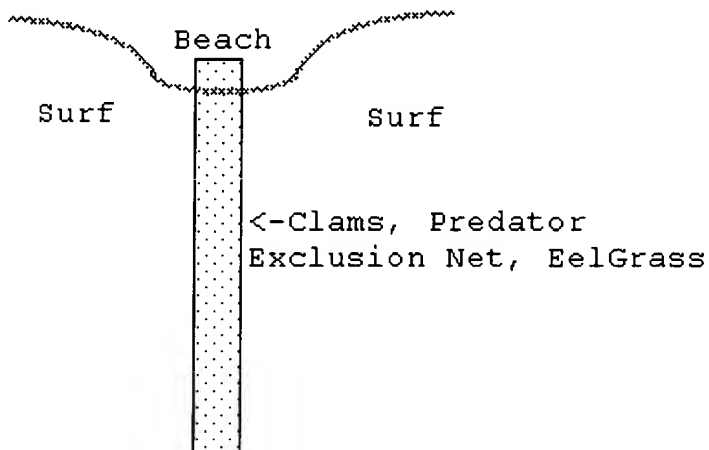




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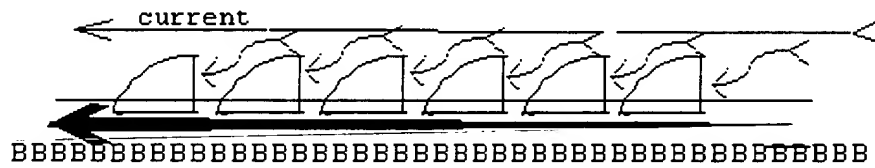
FIG. 19 – Shellfish:SAV Polyculture Groin and Breakwater Substitute of CLAIM 18





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FIG. 20 Foil Array of CLAIM 10 used for current powered directional sediment Transport





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DECLARATION

DECLARATION & Small Entity Election:	I, Russell Patton Davis, am the sole inventor of this "INTEGRATED SYSTEM FOR SHELLFISH PRODUCTION: Encompassing Hatchery, Nursery, Grow-out, Brood-stock Conditioning and Market Conditioning Phases; also Water Treatment, Food Supplement, Propulsion, Anchoring Security, and Devices for the Integration of Neighborhood Values and Shellfish Production.". The contents herein are true to the best of my knowledge and belief. The applicant is a small entity under the rules of the PTO. Signed: Dated:
Inventor Residence and Correspondence Address:	613 Mango Dr., Virginia Beach, VA 23452 USA http://www.Shellfish-Unlimited.com Russell P Davis@Shellfish-Unlimited.com
	757-340-0651



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The following order of arrangement should be observed in framing the application:

(a) Application transmittal form. PTO/SB/05	
(b) Fee transmittal form. PTO/SB/17 & PTO/SB/12	
<u>APPLICATION FOR PATENT COVER SHEET</u>	
(c) <u>Title of the Invention.</u>	
(d) <u>CROSS-REFERENCE TO RELATED APPLICATIONS</u> (if any).	
(e) <u>Statement of federally sponsored research/development</u> (if any).	
(f) <u>Reference to a microfiche appendix</u> (if any).	
(g) <u>BACKGROUND OF THE INVENTION – AKA: Field of the Invention</u>	
(h) <u>BRIEF SUMMARY OF THE INVENTION</u>	
<u>DESCRIPTION OF THE PRIOR ART</u>	
<u>U.S. Patent Documents</u>	
(i) <u>BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE INVENTION</u>	
(j) <u>DETAILED DESCRIPTION OF THE INVENTION.</u>	
(k) <u>CLAIMS.</u>	
(l) <u>ABSTRACT</u> of the disclosure.	
(m) <u>DRAWINGS</u> (if any).	
(n) Executed oath or <u>DECLARATION.</u>	